

Title (en)

Olefin polymerization catalyst system, polymerization process and polymer therefrom

Title (de)

Katalysatorsystem für Olefinpolymerisation, Polymerisationsverfahren und Polymer davon

Title (fr)

Système catalytique de polymérisation d'oléfine, procédé de polymérisation et polymère ainsi obtenu

Publication

EP 1561763 A1 20050810 (EN)

Application

EP 05008539 A 19991119

Priority

- EP 99963936 A 19991119
- US 21570698 A 19981218
- US 21616398 A 19981218
- US 21621598 A 19981218
- US 21362798 A 19981218

Abstract (en)

This invention relates to an olefin polymerization catalyst system comprising at least one activator and one of: a) at least two transition metal catalysts based on bidentate ligands containing pyridine or quinoline moieties, as described below as represented by formula I, II, III or IV, b) the product of the combination of an activator and a transition metal catalyst based on bidentate ligands containing pyridine or quinoline moieties, such as those described as represented by formula III or IV, that has been allowed to react prior to the introduction into the reactor, preferably for at least 15 minutes, and/or c) the product of combination of an additive and a transition metal catalyst based on bidentate ligands containing pyridine or quinoline moieties, such as those described below as represented by formula I or II. <??>This invention further relates to a polymer produced therefrom, particularly to a unique polyethylene resins, more preferably bimodal high density polyethylene resins produced by this invention.

IPC 1-7

C08F 10/00; C08F 4/60

IPC 8 full level

C08F 10/00 (2006.01); **C08F 4/659** (2006.01); **C08F 210/16** (2006.01)

CPC (source: EP KR)

C08F 4/60 (2013.01 - KR); **C08F 10/00** (2013.01 - EP); **C08F 4/65904** (2013.01 - EP); **C08F 4/65912** (2013.01 - EP); **C08F 210/16** (2013.01 - EP)

Citation (search report)

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- [XP] WO 9901460 A1 19990114 - UNION CARBIDE CHEM PLASTIC [US]
- [A] EP 0619325 A1 19941012 - FINA RESEARCH [BE]
- [A] GIBSON V C ET AL: "Synthesis and structural characterisation of aluminium imino-amide and pyridyl-amide complexes: bulky monoanionic N,N chelate ligands via methyl group transfer", 15 January 1998, JOURNAL OF ORGANOMETALLIC CHEMISTRY, ELSEVIER-SEQUOIA S.A. LAUSANNE, CH, PAGE(S) 453-456, ISSN: 0022-328X, XP004109893

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1561763 A1 20050810; KR 100438130 B1 20040702; KR 20010101282 A 20011114

DOCDB simple family (application)

EP 05008539 A 19991119; KR 20017007620 A 20010616